

FIG. 1

WEATHER HISTORY 108

| YEAR | MA | DATA TYPE | P1 | P2 | P3 | P4 | P5 | P6 |
|------|---------|-----------|------|------|------|------|------|------|
| 1994 | MSA 100 | TEMP.SEA | 46 | 47 | 50 | 51 | 54 | 55 |
| 1995 | MSA 100 | TEMP.SEA | 46 | 47 | 49 | 51 | 53 | 55 |
| 1994 | MSA 100 | SNOW.SEA | 0.7 | 0.2 | 0.2 | 0.1 | 0 | 0.1 |
| 1995 | MSA 100 | SNOW.SEA | 0.8 | 0.2 | 0.2 | 0.1 | 0 | 0 |
| 1994 | MSA 100 | PREC.SEA | 1.01 | 1.03 | 1.08 | 1.1 | 1.12 | 1.1 |
| 1995 | MSA 100 | PREC.SEA | 1.01 | 1.03 | 1.07 | 1.1 | 1.12 | 1.1 |
| 1994 | MSA 100 | SNOW | 0 | 0 | 0 | 0 | 1.2 | 0 |
| 1995 | MSA 100 | SNOW | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | MSA 100 | PREC | 1.5 | 0.4 | 0.9 | 1.3 | 1.7 | 0.3 |
| 1995 | MSA 100 | PREC | 1.1 | 0.01 | 2.68 | 1.78 | 0.48 | 0.01 |
| 1994 | MSA 100 | TEMP | 49 | 43 | 45 | 47 | 50 | 42 |
| 1995 | MSA 100 | TEMP | 53 | 51 | 56 | 50 | 58 | 54 |
| 1994 | MSA 100 | TEMP.CAT | 1 | -1 | -1 | -1 | -1 | -1 |
| 1995 | MSA 100 | TEMP.CAT | 1 | 1 | 1 | 0 | 1 | -1 |
| 1994 | MSA 100 | PREC.CAT | 1 | -1 | -1 | 1 | 1 | -1 |
| 1995 | MSA 100 | PREC.CAT | 1 | -1 | 1 | 1 | -1 | -1 |

202

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FIG. 2

Table 1. Mean values of the variables measured during the 60-min test

| | Mean ± SD |
|--|-------------|
| Age (years) | 27.8 ± 1.9 |
| Height (cm) | 178.2 ± 5.5 |
| Weight (kg) | 75.2 ± 10.5 |
| VO _{2max} (l·min ⁻¹) | 3.8 ± 0.4 |
| VO ₂ at rest (l·min ⁻¹) | 1.8 ± 0.2 |
| VO ₂ at 30 min (l·min ⁻¹) | 2.8 ± 0.3 |
| VO ₂ at 60 min (l·min ⁻¹) | 2.5 ± 0.2 |
| HR at rest (beats·min ⁻¹) | 72 ± 8 |
| HR at 30 min (beats·min ⁻¹) | 155 ± 12 |
| HR at 60 min (beats·min ⁻¹) | 148 ± 10 |
| RPE at 30 min | 15.2 ± 1.5 |
| RPE at 60 min | 14.8 ± 1.2 |
| Time to exhaustion (min) | 60 ± 5 |

| YEAR | MA | DATA TYPE | P1 | P2 | P3 | P4 | P5 | P6 |
|------|---------|-----------|------|------|------|------|------|-----|
| N+1 | MSA 100 | SNOW | 0.9 | 0.4 | 0.3 | 0.2 | 0 | 0 |
| N+1 | MSA 100 | PREC | 1.1 | 1.05 | 1.05 | 1.00 | 1.15 | 1.2 |
| N+1 | MSA 100 | TEMP | 48 | 49 | 50 | 53 | 55 | 57 |
| N+1 | MSA 100 | TEMP.CAT | 1 | 1 | 1 | 1 | 1 | -1 |
| N+1 | MSA 100 | PREC.CAT | 1 | 1 | -1 | -1 | 1 | 1 |
| N+1 | MSA 100 | SNOW.CAT | 1 | 0 | 0 | 1 | 0 | 0 |
| N+1 | MSA 100 | SNOW.SEA | 0.8 | 0.4 | 0.3 | 0.1 | 0 | 0 |
| N+1 | MSA 100 | PREC.SEA | 1.00 | 1.03 | 1.06 | 1.05 | 1.10 | 1.1 |
| N+1 | MSA 100 | TEMP.SEA | 47 | 47 | 49 | 52 | 54 | 55 |

WEATHER FORECAST DATA. 1060

FIG. 3

0002-15.vsd

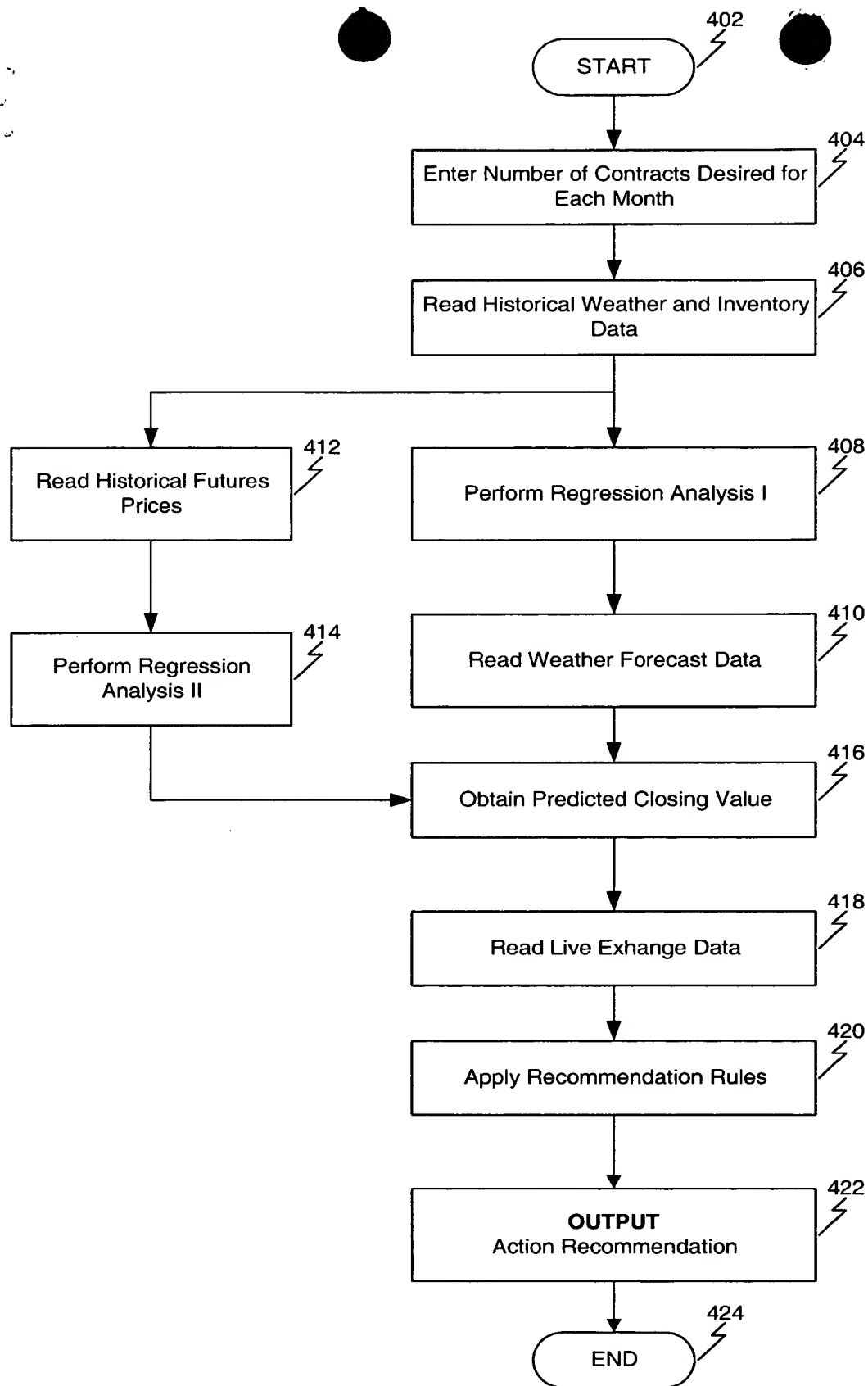
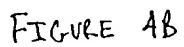


FIG. 4A

400



| Gas Buyer | | Futures | | Today's date | | Recommend | | Option | | Contracts | | To date | | Futures Index | | Call | | Put | |
|-----------|--------|---------|--------|--------------|--|-----------|--|--------|---------|-----------|------|---------|-----|---------------|----|------|---|-----|---|
| days left | Month | current | change | Volat | | | | # | Premium | Goal | | | | | | | | | |
| 15 | Mar-99 | 1.775 | -0.062 | 55% | | | | 200 | 1.65 | 200 | 1.65 | 60 | 95 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | Apr-99 | 1.815 | -0.051 | 44% | | | | 300 | 1.52 | 300 | 1.52 | 55 | 85 | 3 | 0 | 0 | 0 | 0 | 0 |
| 76 | May-99 | 1.852 | -0.039 | 37% | | | | 400 | 1.38 | 400 | 1.38 | 50 | 100 | 9 | 0 | 0 | 0 | 0 | 0 |
| 107 | Jun-99 | 1.880 | -0.031 | 34% | | | | 400 | 1.23 | 400 | 1.23 | 40 | 90 | 9 | 0 | 0 | 0 | 0 | 0 |
| 137 | Jul-99 | 1.910 | -0.021 | 32% | | | | 400 | 1.08 | 400 | 1.08 | 40 | 52 | 0 | 0 | 0 | 0 | 0 | 0 |
| 168 | Aug-99 | 1.935 | -0.020 | 33% | | | | 400 | 0.92 | 400 | 0.92 | 25 | 33 | 15 | 0 | 0 | 0 | 0 | 0 |
| 199 | Sep-99 | 1.960 | -0.018 | 32% | | | | 400 | 0.77 | 400 | 0.77 | 22 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| 229 | Oct-99 | 2.011 | -0.012 | 33% | | | | 400 | 0.62 | 400 | 0.62 | 15 | 20 | 10 | 6 | 0 | 0 | 0 | 0 |
| 260 | Nov-99 | 2.171 | -0.017 | 32% | | | | 400 | 0.47 | 400 | 0.47 | 35 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| 290 | Dec-99 | 2.338 | -0.013 | 32% | | | | 400 | 0.32 | 400 | 0.32 | 0 | 25 | 0 | 12 | 0 | 0 | 0 | 0 |
| 321 | Jan-00 | 2.403 | -0.012 | 32% | | | | 400 | 0.17 | 400 | 0.17 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |
| 352 | Feb-00 | 2.325 | -0.010 | 32% | | | | 400 | 0.02 | 400 | 0.02 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |

FIG. 5

09641394.081800

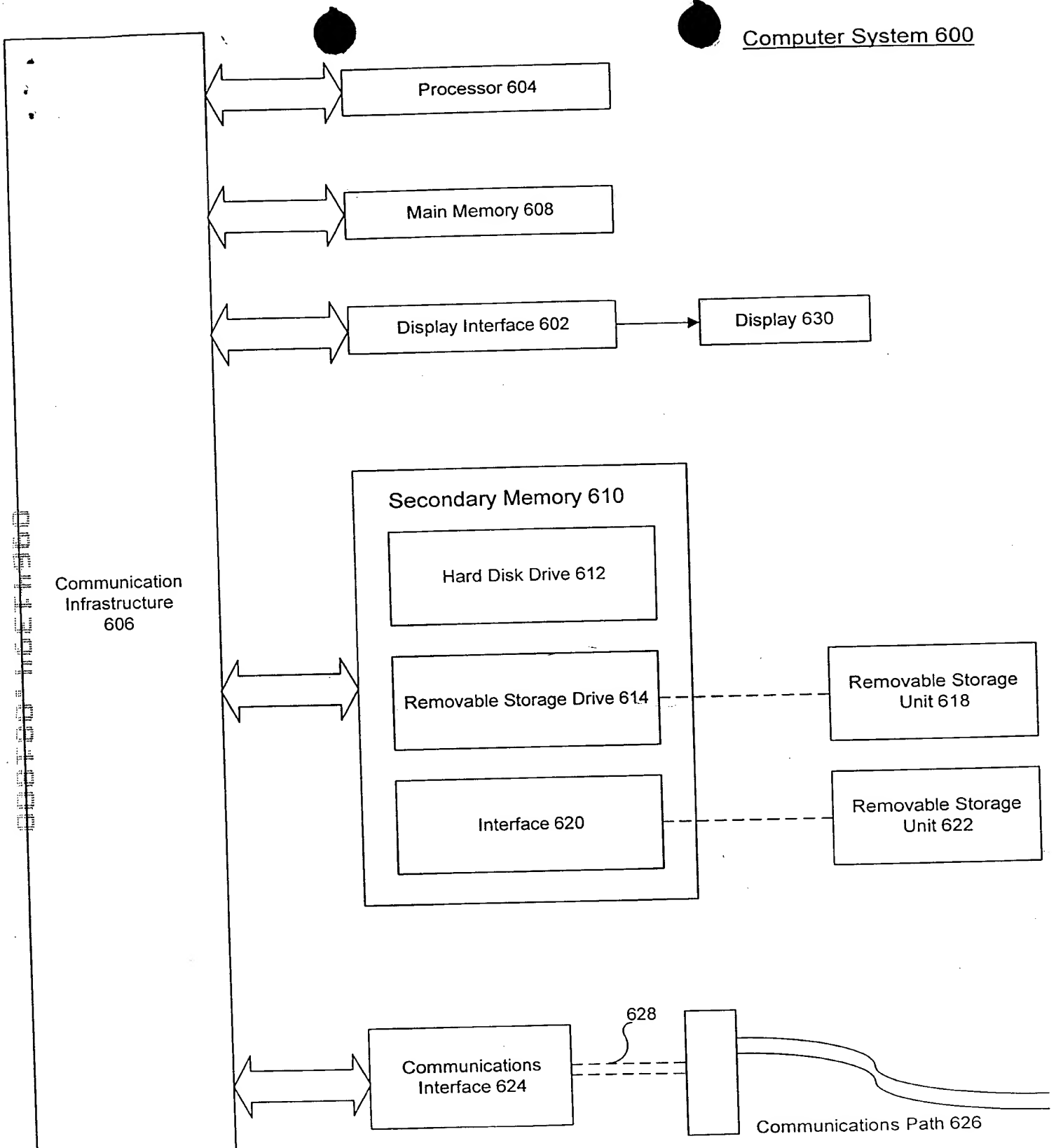


FIG. 6

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104

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FIG. 8